



# IEEE MTT-S Egypt Chapter

## Event Report

**Event Title:**

## MW and mm-Wave Technologies for Smart Applications Workshop

**Date:** May 12–13, 2025

**Location:** 📍 Military Technical College (MTC), Cairo, Egypt (Hybrid)



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## Executive Summary

This workshop is the **second** in the *MW/RF Technologies for Humanities Workshop Series* launched by the IEEE Microwave Theory & Technology Society (MTT-S) Egypt Chapter. It focused on emerging trends in microwave and millimeter-wave technologies for smart applications (IoT, sensing, communications). The event was **free** and conducted in **hybrid mode** from the Military Technical College (MTC), Cairo.

## Organized by

- IEEE Microwave Theory and Technology Society (MTT-S) Egypt Chapter
- In collaboration with Military Technical College (MTC) and the IEEE ICEENG 2025 Conference Committee

## Objective

To bring together academia and industry to discuss recent advances in microwave/mm-wave devices, systems, and applications for smart environments, and to foster collaboration opportunities between researchers, students, and practitioners.

## Event Description

The two-day program on **May 12–13, 2025** featured invited talks, thematic sessions, and discussions on MW/mm-wave sensing, RFID and IoT, smart materials and packaging, and system-level integration for smart applications. The hybrid format enabled wide participation from Egypt and abroad.

## Program Overview

			<b>Monday 12 May (Room1)</b>
<b>9:00AM-2:30PM</b>			Workshop Registration
<b>2:30-2:35PM</b>	<b>Chairs: Prof. A. Sebak, Prof. Tamer Abuelfadl</b>		<b>WORKSHOP OPENNING/WELCOME MESSAGE (IEEE EGYPT SECTION CHAPTER, MTT17, CH08937)</b> <i>Prof. Ayman M. EL-Tager</i> , IEEE Senior Member, Chair and Founder of IEEE MTT-S Egypt Chapter, Scientific Council Chair of the Electronic Eng. Dept., MTC Cairo, Egypt.
<b>2:35-3:10PM</b>			<b>LOCAL SOLUTIONS, GLOBAL IMPACT: LEVERAGING THE IEEE HTB / SIGHT'S GLOBAL NETWORK FOR SOCIETAL CHALLENGE</b> <i>Prof. Mohammad Essaaidi</i> 2025 IEEE SIGHT Committee Chair, IEEE Global Cities Alliance, MEA Chair, IEEE Humanitarian Technologies Programs Committee Chair, EMSI Director, Rabat, Morocco.
<b>3:10-3:45PM</b>			<b>GLOBAL BEST PRACTICES IN DEVELOPING RESILIENT AND SUSTAINABLE SMART CITIES</b> <i>Prof. Mohammad Essaaidi</i>
<b>3:45-4:30PM</b>			<b>RADARS, DIGITAL TWINS, AND THE FUTURE: THE UNSEEN HEROES OF TOMORROW'S TECHNOLOGY</b> <i>Prof. George Shaker</i> University of Waterloo, Canada
<b>9:00-11:00</b>			<b>Tuesday 13 May (Abdelaziz Seif Hall)</b>
<b>9:00-9:45</b>	<b>Chairs: Prof. E. Abdalla, Prof. A Eltager</b>		<b>GREEN COMMUNICATIONS IN EGYPT</b> <i>Senior Engineer: Adel Elsherif</i> , Head of Data Center at e&, Cairo, Egypt.
<b>9:45-10:45</b>			<b>ENGINEERED SURFACES FOR MM WAVE ANTENNAS AND RADAR SCATTERING CONTROL</b> <i>Prof. Abdelrazik Sebak</i> , Ph.D., P.Eng., IEEE Fellow, EIC Fellow Dr Abdel Razik Sebak is a Tier I Concordia University Research Chair
<b>10:45-11:00</b>			<b>Closing Ceremony (Workshop Chair &amp; IEEE MTT-S Egypt Chapter)</b> Prof. Esmat Abdalla, IEEE Senior Member, Full Research Professor at ERI, Former President of the ERI, Cairo, Egypt
<b>11:00-11:30</b>			<b>Coffee Break</b>



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## Impact and Attendance

- **Total Attendance:** Over 100 hybrid participants across both days
- **Audience:** Graduate students, researchers, and industry professionals in RF/MW/mm-Wave
- **Outcomes:** New collaboration leads, student engagement, and follow-up technical activities



## Event Photos

**Day 1 — Monday, May 12, 2025**



(a) Online Presentation: Prof. Mohammad Essaidi: Local Solutions, Global Impact: Leveraging the IEEE HTB/SIGHT's Global Network for Societal Challenge



(b) Audience of a session on Day 1



(e) Award – Prof. Mohammad Essaidi



(f) Award – Dr. George Shaker



(g) Group Photo with few audience and online presenter Dr. George Shaker

Figure 1: Day 1 highlights – Presentations and awarding.



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## Day 2 — Tuesday, May 13, 2025



(a) Talk: Prof. Dr. Abdelrazik Seba: Engineered Surfaces for mm-Wave Antennas and Radar Scattering Control



(c) Session chair — Prof. Ayman M. El-Tager



(d) Award – Prof. Dr. Esmat.



(e) Award – Prof. Dr. Hadia El-Henawy.



(f) Award – Prof. Dr. Ahmed Madian.



(g) Award – Prof. Dr. Abdelrazik Sebak.

Figure 2: Day 2 Highlights and Closing Awards Ceremony with the attendance of the IEEE Egypt Section Chair, Prof. Ahmed Madian

## Contact Information

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